

TABLE 4 : 102 EST sequences relating to "no-significant match" in TABLE 3 A - O

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nanccttagg atttngagca cantgccttt acctgaatat atacagcaca gttctgnant 180

ncctggcgty tgnnactgga gatctctann aaaangnata nagtgggngg gcncnttggc 240

gcntgccggt nnnncctaaa ttttcccan gngnnggagg ccngtcacct gnncccatng 300

cgntctngac cngcctgtna acgnntanng gagccttagt cncntctaaa aacacaaaat 360

tagccnggca tgggggntgg gncctttgta ntctnagctn cttgggaggc tnnccagga 420

antncncttg aanccgggna gnggggtggcc tnaagtttgn ggnaaggcca ntgatcaccg 480

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ttcaagcgtt aatatttaat tctttttgtg gaaggtcaca caattaaaat ttaattgggc 180

atggaggctt aggacggggg aaaaaagtct ttaga 215

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atacatgaa 129

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tgggatnngg ccggcatttt aaaaaaaccc gctttggcct ttttgctana tnggaaaaaa 180

tttttttaaa angcctaaga canggttttc ccttcatatg ccaaactttc cctaacattt 240

ggnntttnng ggngggcagg gggggatttt taaaccggat ttngggtnaa aaaaaatcng 300

gggggaattt ttgggganaa aaccttnggg gggnccccct ttgaaaanaa aggggtgggnn 360

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ttgtcaatca tttattggtt ctaaaaagga tcggacaatg tgctatttca gggaagccaa 120

tgttttggag taaaatgcac aaataatttc tcttgacctg caaacacatt ttttttctg 180

tcattgcaat gtgcacaaag ggccacgagg atctacaaga aagcctgcct tattctgacc 240

aggagtgggg agctgacaag aggcttcaca gagcaggtga tgtttagaga ggaatgtctc 300

ccatttccta gtagcctgtg aggctctcaa aaccgggaat caagtttccc ttctgaactc	360
agttctcaat cgtgtaggga tagggttccc aggtgtgcct ctatgtgtag aggctctatt	420
ataccctgga tacacattga tatgcatgtg caatgctgga atcaccagcc cccangtcct	480
cctcccaaat gtgcatgttt ttgacccat gtcacattta attttttttt tcaattgacg	540
ggtttttagg gcaaanttnc caaaacatcc cccactttgc catantcccc tgtcattcca	600
tattgncttg cactgacatg attcactcat tgatattgcc tgnngcgttc ctatggcctt	660
tgagtttgca nactgggttt gggggaaacc cangnaaaaa aacctctttg aaanggggaa	720
ccccccaat ggtgggggaa ananaactgg actttntttg ggagncnga atttgcctct	780
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ctaaccctttg attaggtccc acaaaaatta ggtgatatgc aatttctaatt tagggcc 118

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tcaaaagaaa aaaaaaaagg ggagctgggc gtgggtacta atgccgtaat ccaggcctt 120

tgggaatccc aggcaagggtg gcctttaggg caaggagttc ggaacctccc tgctaacagg 180

taaacccctt ttccctt 197

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ctggtgtggg gcgcaggcgg gaaacgagac ctctagcatc tggctgaagg ctctgccaag 120

ctcctcttca gggctgcagt ctgcctgcct gcatataccg acttggccag acactgctgc 180

taaattccag ggactctttc tcccctcctc tgctctccag ccaatccttg aggatttaat 240

aactggaagg 250

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atgaggagca tggctcttaa gaacatgctg agaaggaagc aacacagact ccatcactgg 180

gggaagcacc tgaatagagc actggtaaag gccagtctgt ggacctgagg ccagaggaga 240

tgccaggggt ccagatttca tggccacag aaacggaact gatcatattt gggtgctggc 300

cagtgttcca tagaccaaga aggctggtag caagtataga ttctctaca tagcttgaca 360

ggagaagaga aaggggaatg tagcacacag gatgcagcag gtgaataaga aaacctcctt	420
ttcccaggtt ggngacagtg agtgatctac agtgatactc aaaagattgt gattggtgtg	480
ggaattcctg tctcaatatg caatctgcca agaaaacact gtgatgggtt cctgtaaagt	540
aaccctcttt tcttatctct aatttcacaa gactcttaaa tgagaggggg gggagaaagn	600
gttctttctc actcncctaa aactgngggg ctgcctggag aaaanctaca tctgcacaga	660
naatgctggt tagccaggaa	680

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actcacgata caaactatga attttagatt cggatcaaac gaggattgat ccgagggacc	180
aacgttgtga taaatcttac gtcgtcttat atattaagtt tttgtggagg atcggataag	240
tctatagtgt ttgtcacaga tagtcccgta ccacacccca gaccatagga gtcgctctcc	300

ggaccgcggt ctaatggg

318

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tatcaaatta taaaccacc cacattactt aaaatttttt acatttccca ataaaaaacc 120

caaataaaca aaaacttcca atctccattt aaaat 155

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aaacaccttt ttggtgtcaa gaagaaaaag actagcttca ctgaacagag aaatgctgga 120

cagtg 125

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60

gggtttcccg gggaacccaa ccctttaagg ggtngggggg aatttcccc caaaaaaagg 120

gaaaaanttt tccggggggc ccaccggga agggntnccg gggaagg 168

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<400> 15

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cccacatttc catttttaat atatactgtg ctttaciaat attataatat gttttaaaat 180

atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc 240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300

caaatttgt gatcttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360

agtctacct aatttgatga taaaattaca tggaagggat tcttggtggc atgaggacct 420

accaagatgg tcaacaga 438

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ctttaaggnt tgggggaatt cccccaaaaa aggaaaaaat tttcccgggg gcccaaccgg 120

aaagggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc ccctttttcc 180

aattcccaaa accaatttcc aaaaggnaaa ccaaccnttc ccaaaatggg aaagg 235

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caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180

aaggggggaa aattttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

gggggggttcc ccttgggccn tttttccttt tgggtnaaaa aaaaaaaccc cttg 294

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<211> 453

<212> DNA

<213> Human

<400> 18

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ctgtacttga actctaaaac tgttgagaaa actcagtgtc taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttcttt tgaacttctc 240

attccttggg cctaggaacc ctcacacccc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt 360

cacagacagg ctgtgctaga ggaaacctct ggggctcacc aggggcccgtg ggatgggctt 420

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cggcccgggc ccgggnagcc cttcccgggc ttttcccccg ggggggnccc gggggggacc 120

tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180

gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

<210> 20

<211> 181

<212> DNA

<213> Human

<400> 20

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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggagggtt 120

gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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tncccccncn nttnanacna aanntngcac tcttggtgc 100

<210> 22

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ataatggaag atagctntga ggatnaacnc tggtnaggg 100

<210> 23

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60

tttgnggctg cngccctgt gcctgggtgcc acaacaaatg

100

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cgggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120

aaggggggtg gggaagagcc aaatttcttt gggaaanaac gccccttgg ggaaaanaag 180

gcccaaccacc tttcaacanc cccaangcg nggaagccat ttcttgg 227

<210> 25

<211> 306

<212> DNA

<213> Human

<400> 25

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ttcgaccatg tgccttccca ggttgatgaa gacattgcta cacagtctgc agatcaggaa 120

ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca	180
aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga	240
agagacaaat tttgtcatca gctagtgatc tgccatacaa ggtgttcct taatatgtgt	300
agaatg	306

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agatcgcta gccctttgcg ggcgaccacc acgatgtccc agcctgtcag gttgtcctga 120

ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg 180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct	240
agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna	300
ttgccgggga gtcagcagtc gctttttccc ggnccaagcc tcgaactcac cancctgtct	360
ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga	420
cttgcgcggc ccgtttcttt gggggggcaa taccggggcn cggggaaaac ccgnggggng	480
gccaaacccc cc	492

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<222> (490)..(490)

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acgagccggg ctggagcggg ggga<sup>^</sup>aaagca aatgtaggca taagtaacga caatgcgggc 120

gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggaggggta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300

tgggcgccag caggggcggc cttcgggccca aaccgaacct caggtcanac ttccaagaaa 360  
 agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420  
 anaacatcct aaggngctcg agagtacttt ctagagcggc cgcgggcccc atcgantttt 480  
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gctggaaggc ttgnaggga gaaaaggat ccgcctttgg gaggaacca ggtaaggttt 120

aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180

ccaaaaaaaa aattttttaa aaaaattttt ngccccggg ggcattgggg g 231

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<211> 109

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attcggcacg agggattaca gtcgtgagcc actgcacctg gctgcaatt 109

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cantcantng ttgcctntg atacccnana caaaattgaa 100

<210> 31

<211> 100



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ganggtcggn aanttaggnt tccagcctgc gncacngcca 100

<210> 32

<211> 104

<212> DNA

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naaattaggg ttncagcntg tgnantgccca ttttcgntaa 100

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cacgcacggc agcgagtga atgnccgatt cattcttnaa cgacgcacac acccngnngc 120

cctgtgaaac ccataaacag tgggaaatgg tgc 153

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ctgcttaagt ngtcacctg gtccagacca gcgaccagc 100

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ggtgctcctg cgtttggact gtgcaggcct ctctatgct gatgcgtctc cccactcctg 180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc 240

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ggnaggaccc tgntgactcg gggggcggga gcngggancc agg 103

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actagatttt actgtagatg gtagataaaa gtccagtga aagcaaagat gtgtaatgtt 180

ttggtagcct cagtgtcttt atcccaagta aaagcaaagt t 221

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nncattnngc aagcgnacnn gcgcngccna gcngaccagg 100

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atnggacnag nanacangaa acctgcanac ttggnggctt ggaagt 106

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cgaacatttc acngcatat tgcggtgcaa gggcttactg 100

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anggtnttan nagntatatg tatntnncaa accaantann a 101

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ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg	360
ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat	420
aggttacenc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa	480
ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt	540
tgntagatga nnnngtgctc ncccttgngg ctnacaaatt ccancaccnt tgggtggcngc	600
agccnttaag ancacttntt ttggggtgcg ctnttgatg aattacnaat agnntgtttt	660
gttncaaggc ctttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn	720
actggaaatt ttg	733

<210> 53

<211> 100

<212> DNA

<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (57)..(59)

<223> n is a, c, g, or t

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<222> (70)..(70)

<223> n is a, c, g, or t

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<221> misc\_feature

<222> (74)..(74)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (80)..(80)

<223> n is a, c, g, or t

<400> 53

gatcagacaa gancntggtc cacagcggga cgagagntct cnanntgcn ggggagnnnc 60

caagtacgcn agcncctgaan ctaaagcaag caagaaaaag 100

<210> 54

<211> 515

<212> DNA

<213> Human

<400> 54

atatggcaag gataaccctt atacttctgc ataatgaatt aactaaaata acttgcaagg 60

agagccaagc taaacccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg 120

tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgtagc tgggtgtccaa 180

gaagagtctt agttcattta ttgggccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcttcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aaccc 515

<210> 55

<211> 176

<212> DNA

<213> Human

<220>

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<222> (5)..(5)

<223> n is a, c, g, or t

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<221> misc\_feature

<222> (32)..(32)

<223> n is a, c, g, or t

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<222> (40)..(40)

<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (62)..(62)

<223> n is a, c, g, or t

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<222> (76)..(76)

<223> n is a, c, g, or t

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<222> (107)..(107)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (155)..(155)

<223> n is a, c, g, or t

<400> 55

tgtnaggat caaattataa tattgaaata anaacagctn acatttatat agcatgtttn 60

cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagagggga 120

agcctgcctt cattagacca agacagcaag gtttnccttg gtcactagat gaaatt 176

<210> 56

<211> 317

<212> DNA

<213> Human



<220>

<221> misc\_feature

<222> (4)..(4)

<223> n is a, c, g, or t

<400> 56

cagnagtgat gttgcaatat ctggaactag caaaggatāc tgatgagaaa acgtggaatc 60

atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120

ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg 180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300

acattgttat tgccatt 317

<210> 57

<211> 209

<212> DNA

<213> Human

<400> 57

ctcatacacc tgtggctact gttttctaca gagtgccaaa actattcgag agaataggct 60

ctggactgga cactgtatac ccacatgcaa gatgaagttg gcccttaca tcctatacgc 120

aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat 180

taattgggag tgggggctga aacaattcg 209

<210> 58

<211> 262

<212> DNA

<213> Human

<400> 58

aattttgctg ttacatggtg gctcaactga gtcccatact ttgaaggccg ggagttaatc 60

acctgggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg 180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactgggtccg cctgggtgac 240

agagcgagac tccatctcta at 262

<210> 59

<211> 430

<212> DNA

<213> Human

<400> 59

gtcagtttat ttctgactag ggatattttc tttccattta gaaaagaaga aaaaaaaaaa	60
aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc tttggccctt	120
cccgggggag gggatatccg tttataaacc ccaagggtat tttcttagca aaatacttaa	180
aaccggcccg ggtttttata caaactggga acccactttt gaaaaatttt ggccttttga	240
tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt	300
aagtattccc ccccgggggg cctttacaaa aagggcgggtt ttaaaagctt ttgggcccc	360
ctaggaatt gttttaacac ctaaaaaccc ctgcttcct taaagggcg tttttaatt	420
tgggggcggc	430

<210> 60

<211> 350

<212> DNA

<213> Human

<400> 60

aaacctctct aactatatat cacaataacc tgcgcataag atttacgctc cgatcttttc	60
atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg	120

tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca	180
tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct	240
tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat	300
taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga	350

<210> 61

<211> 515

<212> DNA

<213> Human

<400> 61

cacataaatt ctccataagt taattagtga ttttaacatg atctcaatat aaacatagca	60
cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag	120
aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt	180
taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg	240
aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg	300
agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa	360
atgaagttga ataataaaaa tatattctac actagcacia attataaata aagcagtgat	420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

<211> 611

<212> DNA

<213> Human

<400> 62

caagtacttt accaactaag ccaatcttgt cccagccag gcatttctat acaaagggcc 60

aagactttgg ttttataaat aaggaggtat atataaatta tatatatttc tgagctgagt 120

aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tcctttttgt 180

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

tttgttaaaa ttgatataat gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

ctttaatccc agcacttagg aggcagaggc aggggtggatt tctgaatttg agggcaggct 420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480

ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac 540

caaacagac taaaccaaac caaacagac cagaccagac cagaccagac cagaccagac 600

cagaccaaac t 611

<210> 63

<211> 291

<212> DNA

<213> Human

<400> 63

ccgagagatt ggccactgct taaactcatg cagctcctac tgttcttcaa ttaatgcctt 60

taatgcgaat atacttcctc ttctttttgc atgggtcttgcc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgct ttgctgccca 180

ggacatagga caacttcgct gctcactagt tctaacatat taatgctggc gtaggtggag 240

aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

<210> 64

<211> 309

<212> DNA

<213> Human

<400> 64

gccagatgcc gtgtttcctc gatgaactct ttacatcatt ggctattcag tggagtgttt 60

cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca 120

tatatttcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg 180

aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtag aggcagaaat tttgtcaa 300

ctgattaga 309

<210> 65

<211> 278

<212> DNA

<213> Human

<400> 65

tagaatggaa tggagtcgaa tgtgatggaa tggacgcgaa tggaatggaa tggactcgaa 60

tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120

agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180

tggactcaaa aggaatggaa tggaatggac tcaaattggaa tggactcgaa ttgaatgaaa 240

tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

<210> 66

<211> 142

<212> DNA

<213> Human

<400> 66

agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60

ttttttaac tgtaggaggt ttataataat gtcatatgg aaaaataaaa catgtaaaaa 120

atagctagta aactccccct gt 142

<210> 67

<211> 286

<212> DNA

<213> Human

<400> 67

atatctgcc aacctcatcgg ccaatcgtgt tattttgatg acgaatgctt cggagattgg 60

aaagatgatc tctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120

attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180



ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240

caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68

<211> 179

<212> DNA

<213> Human

<400> 68

atctactttt tattcttttg ataaatgttt atgaaatata aaatactgaa aattagaaag 60

tagaagtcac tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120

ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179

<210> 69

<211> 390

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (356) .. (356)

<223> n is a, c, g, or t

<400> 69

cagataagac tattaagaca gataagagcc aaatcatgta gagcctcaga ggTTTTTgat 60

cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120

TTTTgaattc taaactgtct ctgggtgggt gtgggtgcc ccaagagcat gtgttcatgt 180

agggagactg gTTTTttaca gttgtctatg agagagatga cagttgctg gattatggtg 240

gtgacattgg agataagcag gtagacagat tctcagtgt ttaggagaga aaaatcaata 300

ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggTtnggtt 360

ctcaatttct gcatgagaaa aaaggtggac 390

<210> 70

<211> 481

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<400> 70

atgatgaaat gatgagatga aatgcntgag atgagatgtg atgaaatgat gatatgaaat 60

gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120

tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360

tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat 480

g 481

<210> 71

<211> 125

<212> DNA

<213> Human

<220>

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<223> n is a, c, g, or t

<220>

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<221> misc\_feature  
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>

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<222> (49)..(49)

<223> n is a, c, g, or t

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<222> (61)..(61)

<223> n is a, c, g, or t

<220>

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<222> (77)..(77)

<223> n is a, c, g, or t

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<222> (79)..(79)

<223> n is a, c, g, or t

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<222> (88)..(88)

<223> n is a, c, g, or t

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<222> (90)..(90)

<223> n is a, c, g, or t

<220>

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<222> (100)..(100)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (110)..(110)

<223> n is a, c, g, or t

<400> 71

cggtngcaat tgggggcccnc atacgcgcng acgagtantg gncangctnc ttgactacac 60

ngacgcgccg tacaggntna attatgggnan cttacatggn aaagggggcan ctcaatgtcc 120

cacag 125

<210> 72

<211> 473

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (151)..(151)

<223> n is a, c, g, or t

<400> 72

gaaatgaaat aatgaaatga gatgaaataa cgaaataaaa ttgaaatgag atgagaggaa 60

atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120

aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaata tgacatgaaa 240

tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300

ttgaaagatg agatgaaatg atgagatgaa atgaaatggt gaaatgatga agagatgtga 360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420

tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73

<211> 500

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (7)..(7)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (16)..(16)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (233)..(233)

<223> n is a, c, g, or t

<400> 73

aatgagnatg aaaagnatga aatgatgaga tgaaatgaaa tgatgagatg aaatgaggtg 60

aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat 120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360



aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480

atgagatgaa atgatgaaat 500

<210> 74

<211> 299

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (31)..(32)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

ggaaatcctg aagtggaaat gatgagctga nntgcaatga gttgaaatga gatgaancga 60

tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

<210> 75

<211> 155

<212> DNA

<213> Human

<400> 75

agtgaaatga aattgaaata aaatcgaaat gagatgagat gaaatgatga gatgatgaaa 60

taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76

<211> 367

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (35)..(35)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (37)..(38)

<223> n is a, c, g, or t

<220>

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<222> (43)..(43)

<223> n is a, c, g, or t

<220>

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<222> (56)..(56)

<223> n is a, c, g, or t

<220>

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<222> (67)..(67)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (71)..(71)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (75)..(75)

<223> n is a, c, g, or t

<400> 76

atagcaaaag ngggtaaaac ccctgagttt gcganannag tantcttgta ggggcnaact 60

ctacttnaga ngaantcctc gcaaaatcct tgaatcacg cttcagtgcg gtgatatac 120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180

tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

aaatatgagg ggtggcaagg ttttgacctgt tacattctca aatggaagca aattagatat 360

gtcattg 367

<210> 77

<211> 257

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (6)..(6)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<400> 77

actagnacag naatttttagc taagtggagt ttgagttaag tggagatgtg agaccatctc 60

atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta 120

tcagtgtttg gggtttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg 180

agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc acttttttct 240

aggtectttc ttagtct 257

<210> 78

<211> 373

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (24)..(24)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (31)..(31)

<223> n is a, c, g, or t

<220>

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<222> (38)..(38)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (53)..(53)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (61)..(62)

<223> n is a, c, g, or t

<220>

<221> misc\_feature

<222> (66)..(66)

<223> n is a, c, g, or t

<220>

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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt 120



tattacaaa atatttgac cattantaaa gantagggcc aaccnaatt tttcttgaaa	180
tttccgttaa atagccgtta aatgttttta cccatttcac attggatacc ttaaattata	240
ataatggatt ttattgttaa attgtgtgtg tgtgggtgtg atgccctgtc tttctctctc	300
taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg	360
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ccttgatggt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca 120

tgttttggt 128

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ggccaggcct tccctttaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg 120

ggaaaanaaa tcctttttaa anggaantcc aagggagga ncctgnncaa nacttcccn 180

ccaataaaaa aaacnntttt ggaaangggg aaa 213

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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat 120  
  
gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat	240
gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa	300
tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa	360
tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa	420
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<210> 82

<211> 442

<212> DNA

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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60



gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata	120
ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag	180
taaggtatattt ggcatggaat agagaacca gaaacagacc caatgcatgg gtacaggata	240
taacacaggg aaatgagga caatatatgg ttctgggata attatttata tggggaaaat	300
aaagaaattg gatccctacc tcacacatac aaaaaaatc ataattgaat taaaaacttg	360
catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg	420
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<210> 83

<211> 135

<212> DNA

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<222> (8) .. (8)

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aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga 120

aggaaggaag gaagg 135

<210> 84

<211> 346

<212> DNA

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<223> n is a, c, g, or t

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gagttgcctt ctgtaagtgc ccctactatc aagggttcat ggaaaatcta ggcaaggcag 120

aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag 180

agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccccagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300

taaaactttc tttgaacccc ctggcatagg ctgagtttcc ctgact 346

<210> 85

<211> 100

<212> DNA

<213> Human

<400> 85

acaaaaagcc cttttaaaact tgggcccgtc cgaggtcggt tcgactgggc cgagacttcc 60

gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa 100

<210> 86

<211> 201

<212> DNA

<213> Human

<400> 86

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gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata 120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt 180

atgtaacagt gtgggggtttc a 201

<210> 87

<211> 531

<212> DNA

<213> Human

<400> 87

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tcttttacct cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa 240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc 300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

ttcttctaag cgtagcgcgt ctactccaat gttttcgtaa atccagcccg aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcgggtcg gatttactac aggagctaag 480

aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

<210> 88

<211> 530

<212> DNA

<213> Human

<400> 88

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cattcggtcc agtgccctgc cctattagcc cttaagccca ccgtttctaa aactcccaga 120

acagccaaac cggtccgccc aaggcctccg tcgttttata atatattccg tttacgtata 180

aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240

gttctattcc tttcagctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300

gatagcaaag attaccagc ttctattcct cgtcccagag ccgagtaaatt cgaagtttat 360

agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420

tataaactta atgtcccctt tattctcccg gacgccctt ttaaccatt ctctctatct 480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt 530

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aattaaggna aggnttaaaa aatttaacca anggggggtt taaagggntt ttttttttta 180

aaaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc 240

cttaaccccc gggtttttgg gtttttttgg ccaaaacccc cgggaaaaaa attaaaaaaa 300

ggaccggttt ccattttaat ggggtattggg aa 332

<210> 90

<211> 185

<212> DNA

<213> Human

<400> 90

actgctataa tgcaggggaa catgttctca gggtcaccc gaggggttgt gtcatggggc 60

cggtggtaac tattaaaaca taagttaaat cggtatttaa aattttaaaa tcaaaaaaaaa 120

taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

ctcct 185



<210> 91  
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tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga 180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag 240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg 300

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ttgta 365

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aagtcaggat agtagttttc attccttaga tggtagaagt gttgagacaa atg 113

<210> 93

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<212> DNA

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<400> 93

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atgaaaatgt tactgttggg ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt 120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttgaaaa attaaagaaa 180

cttcatagaa ccccatctct acacaaaaaa 210

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ttaganaccn atgngatggn cnnncnaaan nnttaaagtg agagtccatc tnngaanaaa 120

atgggnaant ttnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnngggntt 180

naaannnggn nctngggggg ggaaantttt ggcccccccc cgggggnttt ncctnaaaaa 240

aaanccnttt naaanacngn nanaattttt ccnnnncggg gaggnngnga nntttttttt 300

tnaannagcc ntttttgna naaaaannt ggcccccccc ctattccnng gnttttngga 360

ccnttnnanc ntgggnnttt ttagnccttn aaaaaaangc naatnttaag gtaaaaattn 420

ggggggggng gggggnggn gnnttttttt ttntnnggag gggttttttt ccnncngggg 480

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<211> 400

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<223> n is a, c, g, or t

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agaccagct nagcagatan ctncatttct ntctnaagnc ctttggtctg naggngnca 120

ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180

ttttctctta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgcn 240

canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg 300

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<223> n is a, c, g, or t

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aaatgaaatg aaataatgaa atgaaattga aataaaattg aaatgagatg agatgaaatg 120

atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180



tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat	240
acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatga aaagagttga	300
tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag	360
atgaaatgag gtgaaatgaa attagatgaa acgtaatgag atgaaatgac ataatgaaat	420
gaaaaaatga aatgaaataa tgaaatgagg tgaaattaaa tgagatgatg aaattaaatg	480
atgaaatgaa ataatgaaat ggaaatgaaa tggaaatgat gagatgaatg atgagatgaa	540
atgatgagat gagatgtatt gatgagagga aatgatgaga tgtaatgaaa tgagatgaaa	600
tgaatgagat gaaatggaat antggaangg aaattgattg gngatttgag atgaaatgag	660
ntaaatgnga tgaattaatg atgagatgaa atgntgaatg ccgggggtggn tgagatgaat	720
tgagttgaac cctgngatga atgaagattg nntgaatggt ggntgaatgt tgaatggntg	780
gntggnanaa tgcctgtngg	800

<210> 97

<211> 334

<212> DNA

<213> Human

<400> 97

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atgaaatgat attgaaatga aattgaaaga tgagatgatg agatgaaatg gtgaaatggt 120

gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180

tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata 240

atgaaatgaa aatgaaatgg aaatgatgag atgagaagaa atgatgagat gagatgagat 300

aaaatgagat gaaatgatga gatgaaatga tgag 334

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<212> DNA

<213> Human

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tgcttggtag acgcttttga acccttcagc gctgaaagta

100

<210> 99

<211> 500

<212> DNA

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<222> (361)..(361)

<223> n is a, c, g, or t

<400> 99

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agatgaaaag agttgatgag atgatgagat gaaatgagat gaaaagagat gaaatgagat 120

gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

aatgacctaa tgaaatgaaa aaatgaaatg aaataatgaa atgaggtgaa attaaatgag 240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

tgaatgatga gatgaaatga tgagatgaga tctaataatg agaggagatg atgagatgaa 360

ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

tgaaattaga tgaaacgtaa tgagatgaaa tgacataatg aaatgaaaaa atgaaatgaa 480

ataatgaaat gaggtgaaat 500

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<211> 397

<212> DNA

<213> Human

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tccccttgaa nntctctaaa ccttaacttt ctggcncntt tgtttcagan atgcctaacc 120

ctcaggggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattcncntt 180

cctctctgta gaaattgacc tggccatggc tectgtgaat gatacgggtg ctattatccc 240

tgaacactgt aaaaatgaac ttgaaacag ttgggtagga cccaaacaga aaatgatgta 300

tggtcttgaa atagtttagc tgaacattat gctttaatat ttactggcc attgcagcac 360

aggtttagaa atttatgttc ggctttttaa agtttta 397

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<211> 132

<212> DNA

<213> Human

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attaattgta ctactttcaa aagaattaat tgaagaaaga gagatacagg gtatctaggc 120

ngaggaagac cc 132

<210> 102

<211> 246

<212> DNA

<213> Human

<400> 102

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ggcacttaat tttataattg atatatataa taaaaaatc aatgcagata ttgatataat 120

aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180

aacctataac ttattaagta aagtgccaga atggttcttt gacagtatta aaattaaaga 240

aaacag 246